



INFRASTRUCTURE ANALYSIS TEAM
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RP-0111

IAT/REV

7 April 2004

MEMORANDUM FOR THE INFRASTRUTURE EVALUATION GROUP (IEG)

Subj: REPORT OF IEG DELIBERATIONS OF 1 APRIL 2004

- Encl: (1) IAT Military Value Weighting Brief for Operations Functions - Surface/Subsurface, Ground, and Air of 1 April 2004
- (2) IAT Surface/Subsurface Operations Function Revised Military Value Evaluation Questions
- (3) IAT Surface/Subsurface Operations Function Military Value Notional Matrices
- (4) IAT Ground Operations Function Military Value Notional Matrices
- (5) IAT Military Value Analysis for Naval Air Introductory Brief of 1 April 2004
- (6) IAT Aviation Operations Function Military Value Evaluation Questions

1. The fifth deliberative session of the Department of the Navy (DON) Infrastructure Evaluation Group (IEG) convened at 0945 on 1 April 2004 in the Infrastructure Analysis Team (IAT) conference room located at Crystal Plaza 6, 9th floor. The following members of the IEG were present: Mr. H. T. Johnson, Chair; Ms. Anne R. Davis, Vice Chair; Ms. Ariane Whittemore, alternate for VADM Charles W. Moore, Jr., USN, Member; Mr. Thomas R. Crabtree, alternate for VADM Albert H. Konetzni, USN, Member; LtGen Richard L. Kelly, USMC, Member; BGen Samuel T. Helland, USMC, alternate for LtGen Michael A. Hough, USMC, Member; Col Carol K. Joyce, USMC, alternate for Dr. Russ Beland, Member; Dr. Michael F. McGrath, Member; Mr. Ronnie J. Booth, Navy Audit Service, Representative; and, Mr. Thomas N. Ledvina, Navy Office of General Counsel, Representative. The following members of the IAT were present: Mr. Dennis Biddick; Mr. David W. LaCroix; CAPT Chris T. Nichols, USN; CAPT Jason A. Leaver, USN; CDR Edward J. Fairbairn, USN; CDR Carl W. Deputy, USN; LtCol Terri E. Erdag, USMC; LtCol Robert R. Mullins, USMCR; LtCol Paul J. Warhola, USMC; CDR Robert E. Vincent II, JAGC, USN; LCDR Daniel L. Frost, USN; LCDR Brian D. Miller, USNR; LCDR Timothy P. Cowan, CEC, USN; LCDR Kevin D. Laye, USN; and, Capt James A. Noel, USMC.

Subj: REPORT OF IEG DELIBERATIONS OF 1 APRIL 2004

2. Ms. Davis outlined the agenda for the deliberative session using enclosure (1). Initially, the IEG reviewed the segment of the operations functions military value scoring plan pertaining to questions and answers concerning "unique" and "specialized" missions and capabilities and "unique" training capabilities. The IEG decided that activities would be directed to identify and describe any unique or specialized missions or capabilities. In reviewing the answers to these questions, the IEG will apply its collective military judgment to determine whether the capability or mission is actually unique or specialized. The IEG adopted the following analyses in order to make these determinations:

a. Unique. Unique is defined as "one of a kind." If the IEG concludes that a mission or capability is unique, for DON or DOD, then the IEG will evaluate its importance by assessing the usefulness of the mission or capability. Thus, a mission or capability could be unique, but no longer useful or important. The IEG will then array all identified unique capabilities and missions and determine appropriate valuation.

b. Specialized. The IEG recognized it may not fully understand the support provided by Navy and Marine Corps activities to "specialized missions" until the data was arrayed. It acknowledged the need to positively value mission support that was not unique but not commonly provided by operational units. Accordingly, the IEG concluded it would determine appropriate valuation after data was arrayed and it could assess the relative value of support to specialized missions.

3. As directed by the IEG at the last deliberative session, the IAT Operations Team reconstructed four scoring statements and roll-up questions for the Personnel Support Attribute and presented them to the IEG for consideration. Ms. Davis noted the IEG had previously directed the IAT to reconstruct the scoring statements for family and bachelor housing (PS-2 and PS-3). Upon review, the IAT modified its earlier recommendation and suggested that the preferable approach was to evaluate the relative value of government and community housing vice family and bachelor housing. The IEG concurred with the IAT's modified recommendation. In order to accurately depict the types of government housing available, the IEG added the words, "and PPV", to scoring statement PS-2. With this change, the IEG approved the scoring statements, roll-up questions and apportionment for PS-2, PS-3, PS-7, and PS-9. See enclosure (2). These revisions will be applicable for the Personnel

Subj: REPORT OF IEG DELIBERATIONS OF 1 APRIL 2004

Support Attribute for all Operations Functions -
Surface/Subsurface, Ground, and Aviation.

4. As directed by the IEG at the last deliberative session, the IAT prepared suggested assignment of the Surface/Subsurface Operations Function scoring statements, by attribute, to the four military value selection criteria. See enclosure (3). Insertion of a "1" indicated the scoring statement related to a particular military value selection criteria. Except as noted below, the IEG approved the IAT's recommendations:

a. Operational Infrastructure. The IEG reviewed the Surge Capabilities selection criteria and assigned scoring statement SEA-7a-c to it. Additionally, the IEG determined that pier-side crane list availability affects operational infrastructure readiness and assigned scoring statement SEA-12 to the Readiness selection criteria.

b. Operational Training. The IEG determined that the Force Reduction Plan concept and throughput issues necessitated assigning scoring statement SEA-24 to both the Readiness and Surge Capabilities selection criteria.

c. Port Characteristics. The IEG determined that proximity to a weapons station and Anti-Terrorism/Force Protection facilities affect costs. Accordingly, the IEG assigned scoring statements SEA-35, SEA 39a-b, SEA-40, and SEA-41 to the Cost/Manpower Implications selection criteria.

d. Environment & Encroachment. The IEG determined that an activity could enhance its ability to dispose solid and hazardous waste and reduce potable water constraints by purchasing these services in the local community, if necessary. Accordingly, the IEG determined scoring statements ENV-5a-c and ENV-6a-b should not be assigned to the Surge Capabilities selection criteria, but assigned to the Cost/Manpower Implications selection criteria. Additionally, the IEG assigned scoring statement ENV-7a-c to the Surge Capabilities selection criteria.

e. Personnel Support/QOL. The IEG determined that government and community housing availability affect surge capabilities. Accordingly, scoring statement PS-3a-b was assigned to the Surge Capabilities selection criteria.

Subj: REPORT OF IEG DELIBERATIONS OF 1 APRIL 2004

5. Ms. Davis noted that the IEG determined Surface/Subsurface Operations Function Military Value Attribute Selection Criteria Weights at the 25 March 2004 deliberative session. After the application of the scoring statements to the selection criteria, it became apparent that the attribute weighting did not adequately reflect the assignment of scoring statements to the selection criteria. Accordingly, the IAT prepared new attribute weights for the IEG's consideration. The IEG directed the changes noted below and approved the revised attribute weights as listed:

Selection Criteria (SC)		Readiness	Facilities	Surge Capability	Cost	TOTAL
<i>Weighting</i>		50	20	15	15	100
Attribute						
Operational Infrastructure		45	35	35	25	
Operational Training		25	30	20	20	
Port Characteristics		20	15	20	15	
Environment & Encroachment		5	10	15	20	
Personnel Support		5	10	10	20	
		100	100	100	100	

The IEG determined that the Operational Infrastructure weight for the Cost selection criteria should be higher than Operational Training. Accordingly, the attribute weight for Operational Infrastructure was changed from 20 to 25 and Operational Training was changed from 25 to 20.

6. The IEG recessed at 1042 and reconvened at 1052. All IEG members present when the IEG recessed were again present. Ms. Carla Liberatore, Assistant Deputy Commandant for Installations and Logistics, Headquarters, U.S. Marine Corps, and Col Walter B. Hamm, USMC, entered the deliberative session at 1052.

7. As directed by the IEG at the last deliberative session, the IAT prepared suggested assignment of the Ground Operations Function scoring statements, by attribute, to the four military value selection criteria. See enclosure (4). Insertion of a "1" indicated the scoring statement related to a particular military value selection criteria. Except as noted below, the IEG approved the IAT's recommendations:

a. Operational Infrastructure. The IEG determined that scoring statement GRD-7a-b should not be assigned to the Surge Capabilities selection criteria.

Subj: REPORT OF IEG DELIBERATIONS OF 1 APRIL 2004

b. Environment and Encroachment and Personnel Support/QOL.
 The IEG made the same changes for these two attributes as delineated in paragraph 4d. and 4e. of this report.

8. As directed by the IEG at the last deliberative session, the IAT prepared proposed attribute weighting to the selection criteria for Ground Operations Function. The IEG directed the changes noted below and approved the recommended attribute weights as listed:

Selection Criteria (SC)		Readiness	Facilities	Surge Capability	Cost	TOTAL
<i>Weighting</i>		50	20	15	15	100
Attribute						
Operational Infrastructure		20	25	25	25	
Operational Training		40	30	30	20	
Base Characteristics		15	25	20	15	
Environment & Encroachment		10	10	20	20	
Personnel Support		15	10	5	20	
		100	100	100	100	

The IEG determined that personnel support has a significant impact on the readiness of Ground Operations. Accordingly, the attribute weight for Personnel Support for the Readiness selection criteria was changed from 5 to 15 and Operational Infrastructure was changed from 30 to 20. Additionally, the IEG determined that the attribute weight for Base Characteristics and Environment & Encroachment in the Cost selection criteria should be the same for Ground Operations and Surface /Subsurface Functions. Accordingly, the attribute weight for Base Characteristics was changed from 20 to 15 and the attribute weight for Environment & Encroachment was changed from 15 to 20.

9. LtGen Kelly, USMC, Member, left the session at 1143. Ms. Liberatore served as his alternate.

10. CAPT Nichols and CDR Deputy provided the IEG the military value analysis overview for the Naval Aviation Operations Function. See enclosure (5). The IAT presented an Aviation Universe to the IEG. This universe contained DOD owned aviation facilities capable of home basing operational naval air squadrons/wings. The IAT will review its proposed list to ensure it captures all potential facilities and will

Subj: REPORT OF IEG DELIBERATIONS OF 1 APRIL 2004

report on its review to the IEG at the next deliberative session.

11. The IEG agreed to apply the same weights as were applied for the Surface/Subsurface and Ground Operations Functions:

- a) Readiness (R): 50
- b) Facilities (F): 20
- c) Surge Capabilities (SC): 15
- d) Cost and Manpower (C): 15.

12. The IAT proposed identical attributes for the Naval Aviation Operations Function as had been previously approved by the IEG for Surface/Subsurface Operations and Ground Functions, except Airfield Characteristics is substituted for Port Characteristics and Base Characteristics, respectively. The IEG approved the following attributes: Operational Infrastructure, Operational Training, Airfield Characteristics, Environment and Encroachment, and Personnel Support/QOL.

13. The IAT proposed components for Naval Aviation Operations Function similar to those previously approved by the IEG for Surface/Subsurface Operations Function. The IEG conceptually approved the following components:

a. Operational Infrastructure: Runways/Arresting Gear, Hangars/Ramps, Navaids/Lighting, Munitions Storage, Intermediate Maintenance, and Unique or Specialized Capabilities/Missions.

b. Operational Training: Outlying and Auxiliary Fields (OLFs), Special Use Airspace, Ranges, MTRs, Aircrew Training Facilities, and Simulator Facilities.

c. Airfield Characteristics: Operational Location, Airfield Restrictions, Weather, Anti-Terrorism/Force Protection, and Locality Cost.

d. Environment and Encroachment: Encroachment, Air Quality, Accident Potential Zone I and II, Clear Zones, Noise, Zoning, Waste Disposal, and Potable Water.

e. Personnel Support (QOL): Medical, Housing, Education, Employment, Fleet & Family Services, MWR, Follow-on Tour Opportunities, and Metropolitan Area Characteristics.

Subj: REPORT OF IEG DELIBERATIONS OF 1 APRIL 2004

14. The IEG approved the proposed scoring statements and roll-up questions for the Naval Aviation Operational Infrastructure attribute and its components. See enclosure (6). The IEG then placed the Operational Infrastructure attribute scoring statements in one of three bands (Band 1, 2, or 3 in descending order of importance). The IEG approved the bands recommended by the IAT, except that the bands for scoring statements AIR-7 and AIR-9 were changed from "3" to "2" since the IEG determined the number of runways serviced by Optical Landing System (OLS) and Precision Approach Radar (PAR) was as important as the number of hot refueling hydrants. The IEG changed the band for scoring statement AIR-10 was changed from "2" to "3" after it noted that munitions are not stored at air facilities.

15. After the IEG approved the band placement for the Operational Infrastructure attribute and its components, it determined a numerical score. The numerical score for each scoring statement depended upon its band placement (i.e., Band 1: 6-10; Band 2: 3-7; and Band 3: 1-4). See enclosures (6).

16. The deliberative session adjourned at 1236.



ROBERT E. VINCENT II
CDR, JAGC, U.S. Navy
Recorder, IAT

TAB 1



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Military Value Weighing Deliberative Session

**Operations
Functions
Surface/Subsurface,
Ground and Air**

1 April 2004

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Agenda

- 1. Review the IEG approach for handling answers to “unique” and “specialized” missions/capabilities and “unique” training questions.**
- 2. Review and approve IAT revised questions (PS-2, 3, 7, and 9)**
- 3. Surface/Subsurface:**
 - Review/modify/approve scoring statement to Attribute map
 - Review revised Attribute weighting
- 4. Ground:**
 - Review/modify/approve scoring statement to Attribute map
 - Review revised Attribute weighting
- 5. Review calculated weighting results for Surface/Subsurface Operations.**
- 6. Review calculated weighting results for Ground Operations.**
- 7. Air Operations Function Brief and Question Review.**



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“Unique and Specialized” Question Approach

- **The following questions in the military value scoring plan for all operations functions require the IEG to apply military judgment to the evaluate the answers:**
 - Unique capabilities or missions
 - Specialized capabilities or missions
 - Unique Training capabilities
- **Each question asks the responder to describe the mission or capability**
- **Once the answers are received the IEG will:**
 - determine whether the capability or mission is truly unique or specialized
 - evaluate its importance
 - assign appropriate credit (0-1) where 1 receives full weight of the scoring statement per the approved scoring plan.



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Personnel Support (QOL) Questions

- **Housing: PS-2 and PS-3**
 - **Scoring statements revised to reflect:**
 - **Government Housing (including PPV)**
 - **Community Housing**
 - **Prevents duplication of questions which would be required with the family vs. unaccompanied approach.**
- **Base Services and MWR questions PS-7 and –9**
- **Outstanding action to revise questions ongoing with Criteria 7 issues:**
 - **PS-4 and –5: Non-military education**
 - **PS-6: Employment**



Scoring Statements and Weighting

Surface/Subsurface:

- Review/modify/approve scoring statement to Attribute map
- Review revised Attribute weighting

Ground:

- Review/modify/approve scoring statement to Attribute map
- Review revised Attribute weighting

Review calculated weighting results for Surface/Subsurface Operations.

Review calculated weighting results for Ground Operations.



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Surface/Subsurface Attribute Weighting

IEG Decision 3/25/04

Selection Criteria (SC) Weighting	Readiness		Facilities		Surge Capability		Cost		TOTAL
	50	20	15	15	15	15	15		
Attribute									
Operational Infrastructure	40	20	35	7	35	5.25	30	4.5	36.75
Operational Training	30	15	35	7	20	3	20	3	28
Port Characteristics	20	10	10	2	20	3	10	1.5	16.5
Environment & Encroachment	5	2.5	0	0	15	2.25	20	3	7.75
Personnel Support	5	2.5	20	4	10	1.5	20	3	11
	100	50	100	20	100	15	100	15	100

IEG Decision



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Ground Attribute Weighting

With the Selection Criteria having been Weighted previously, the attributes must now be weighted as they apply to each Selection Criteria.

Selection Criteria (SC) Weighting	Readiness 50	Facilities 20	Surge Capabilit 15	Cost 15	TOTAL 100
Attribute					
Operational Infrastructure					
Operational Training					
Base Characteristics					
Environment & Encroachment					
Personnel Support (QOL)					
	100	100	100	100	100

IEG Determines Attribute weights for each Selection Criteria

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TAB 2

Surface / Subsurface Operations
Military Value Evaluation Questions
Revised Questions for 4/01/04 IEG

Attribute: Personnel Support

Component: Housing

PS-2. Relative value of government and PPV housing availability.

PS-2a. (0.5) What was the average wait time (in months) for family housing, including Public Private Venture (PPV) units, at your installation as of 30 September 2003?

$$\text{Avg Wait Time} = \frac{(\text{List}_1 \text{ Wait Time} \times \text{List}_1 \text{ Units}) + (\text{List}_2 \text{ Wait Time} \times \text{List}_2 \text{ Units}) + \dots}{\text{Total Housing Units}}$$

Source: Data Call II

Based on responses received, analyst will apply a function for zero to maximum credit.

PS-2b. (0.25) What is the total number of adequate Bachelor Quarters (combined officer and enlisted; both current and budgeted) at your installation divided by the total military population as of 30 Sep 2003?

Source: Capacity Data Call

Ratio of number of rooms per active duty population. Based on responses received, analyst will apply a function for zero to maximum credit.

PS-2c. (0.25) What was the total number of non-availabilities issued over the past five years (1999-2003) divided by the total number of transient rooms as of 30 Sept. 2003 at your installation?

Source: Capacity Data Call

Ratio of number of non-availabilities per total number of transient rooms. Based on responses received, analyst will apply a function for zero to maximum credit.

PS-3. Relative value of community housing availability, affordability and proximity.

PS-3a (0.25) What is the community rental vacancy rate?

Source: Data Call II (Criteria 7 question)

Based on responses received, analyst will apply a function for zero to maximum credit.

PS-3b. (0.25) What is the BAH (E-5 without dependents) for the locality as of 1 Jan 2004?

Source: Data Call II (Criteria 7 question)

Based on responses received, analyst will apply a function for zero to maximum credit

PS-3c. (0.25) What is the BAH (E-5 with dependents) for the locality as of 1 Jan 2004?

Surface / Subsurface Operations-Military Value Evaluation Questions

Source: Data Call II (Criteria 7 question)

Based on responses received, analyst will apply a function for zero to maximum credit

PS-3d. (0.25) What is the average commute time for those living off base (source: Census Bureau)? (Time: minutes)

Source: Data Call II

Based on responses received, analyst will apply a function for zero to maximum credit.

Attribute: Personnel Support

Component: Fleet and Family Services

PS-7. Relative availability of base services.

PS-7. Which Support Services facilities are located at your installation?

FACILITY	Available (yes/no)	Value
Commissary		0.4
Exchange		0.2
Family Service Center		0.2
Convenience Store		0.1
Chapel		0.1
TOTAL		1.00

Source: Capacity Data Call

Binary values.

Surface / Subsurface Operations-Military Value Evaluation Questions

Attribute: *Personnel Support*

Component: *MWR*

PS-9. Relative availability of MWR facilities.

PS-9. Which MWR facilities are located at your installation? (y/n)

FACILITY	Available (yes/no)	Value
Gymnasium/Fitness Center		0.3
Swimming Facilities		0.2
Golf Course		0.1
Youth Center		0.1
Officer/Enlisted Club		0.1
Bowling		0.03
Softball Field		0.02
Library		0.01
Theater		0.01
ITT		0.01
Museum/Memorial		0.01
Wood Hobby		0.01
Beach		0.01
Tennis CT		0.01
Volleyball CT (outdoor)		0.01
Basketball CT (outdoor)		0.01
Racquetball CT		0.01
Driving Range		0.01
Marina		0.01
Stables		0.01
Football Field		0.01
Soccer Field		0.01
TOTAL		1.00

Source: *Data Call II*

Binary value.

TAB 3

SURFACE / SUBSURFACE FUNCTION MILITARY VALUE MATRIX (NOTIONAL)
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MV Matrix #	Supporting Question(s)	Data Call	DC Quest(s)	IAT Band	Matrix Scoring Statement	SC			Readiness			Facilities			Surge Capabilities			Cost/MP Impl.			
						IEG Score	OI	OT	PC	EE	PS	OI	OT	PC	EE	PS	OI	OT	PC	EE	PS
PORT CHARACTERISTICS																					
Operational Location																					
31	SEA-31			2	Relative value of the transit distance (safe navigation route) to sea.	5				1											
32	SEA-32			2	Relative value of the transit distance (safe navigation route) to the 50 fathom curve.	5				1											
33	SEA-33			2	Percent of the day the harbor channel allows CV/CVN transits.	5				1											
34	SEA-34a-b			3	Relative impact of local weather on operations.	2				1											
35	SEA-35			3	Relative value of proximity to the nearest weapons station.	2				1											
36	SEA-36			3	Relative value of proximity to the nearest Explosive Ordnance Detachment support.	2				1											
Strategic Location																					
37	SEA-37			1	Port location is of strategic military value.	7				1											
Port Restrictions																					
38	SEA-38			2	Relative impact of port / harbor restrictions on operations.	6				1											
Anti-Terror/Force Prot																					
39	SEA-39a-b			2	Relative value of buildings which meet structural criteria and/or perimeter standoff criteria.	3															
40	SEA-40			2	Adequate space available for Entry Control Points to have vehicle search, holding areas, and rejection lanes.	3															
41	SEA-41			2	Relative value of utility (government or commercial, electric, or water) redundancy.	3															
Locality Cost																					
42	SEA-42a-b			3	Relative value of the locality cost.	3															
Supply and Storage																					
43	SEA-43			3	Relative value of proximity to the nearest Fleet and Industrial Supply Center.	1				1											
																			Question Total		
																			1		

SURFACE / SUBSURFACE FUNCTION MILITARY VALUE MATRIX (NOTIONAL)
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MV Matrix # ATTRIBUTE - Attribute Weight	Supporting Question(s) Call	Data Quest(s)	DC Band	IAT Band	Matrix Scoring Statement	SC			Readiness			Facilities			Surge Capabilities			Cost/MP Impl.		
						IEG Score			50			20			15			15		
						OI	OT	PS	OI	OT	PC	EE	PS	OI	OT	PC	EE	PS	OI	OT
PERSONNEL SUPPORT/QOL																				
Medical																				
52	PS-1			2	Located within the medical catchment area of an in-patient military medical treatment facility.	4														
Housing																				
53	PS-2a-d			1	Relative value of government housing availability.	10														
54	PS-3a-b			1	Relative value of community housing availability, affordability and proximity.	10														
Non-Military Education																				
55	PS-4a-c			2	Relative value of dependent primary and secondary education quality in the local community.	7														
56	PS-5a-c			2	Relative availability of dependent and member post-secondary education in the local community.	6														
Employment																				
57	PS-6a-b			3	Relative opportunity for dependent/off-duty employment.	3														
Fleet and Family Services																				
58	PS-7			2	Relative availability of base services.	7														
59	PS-8a-b			2	Relative availability of child-care support.	6														
MWR																				
60	PS-9			2	Relative availability of MWR Facilities.	6														
Follow-on-Tour Opportunities																				
61	PS-10			3	Relative opportunity for follow-on tour in the homeport.	1														
Metropolitan Area Characteristics																				
62	PS-11			3	Relative proximity to a population center/city that has a population greater than 100,000.	2														
63	PS-12			3	Relative proximity to a nearest commercial airport that offers regularly scheduled service by a major airline carrier.	3														
64	PS-13			3	Relative local crime rate.	3														
Question Total																				

TAB 4

GROUND OPERATIONS FUNCTION MILITARY VALUE MATRIX (NOTIONAL)
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MV Matrix # ATTRIBUTE - Attribute Weight	Supporting Data Question(s) Call	DC Quest(s)	IAT Band	SC IEG Score	Matrix Scoring Statement															Weight
					Readiness			Facilities			Surge Capabilities			Cost/MP Impl.						
					OI	OT	BC	EE	PS	OI	OT	BC	EE	PS	OI	OT	BC	EE	PS	
BASE CHARACTERISTICS																				
Operational Location																				
25	GRD-30			9																
26	GRD-31a-b			5	1															
27	GRD-32			8	1															
Strategic Location																				
28	GRD-33			7	1															
Throughput																				
29	GRD-34a-b			7	1															
30	GRD-35a-b			7	1															
31	GRD-36a-c			6	1															
32	GRD-37			5	1															
Anti-Terrorism / Force Protection																				
33	GRD-38a-b			3						1										
34	GRD-39			3						1										
35	GRD-40			3						1										
Locality Costs																				
36	GRD-41a-b			3																
Question Total																	15			

TAB 5



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Military Value Analysis For Naval Air Introductory Brief

**to Infrastructure Evaluation Group (IEG)
01 April 2004**

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Naval Air Operations Agenda

- **Objectives of this session:**
 - **Approve air operations universe.**
 - **Review and weight Selection Criteria.**
 - **Review attributes and components.**
 - **Review scoring statements and questions.**
 - **Review bands and assign scores.**
- Time permitting...**
 - **Assign scoring statements to Selection Criteria.**
 - **Assign weights to attributes under each Selection Criterion.**
 - **Review calculated weighting results.**



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Proposed Aviation Universe

- MCAS Beaufort
- MCAS Cherry Point*
- MCB Hawaii (Kaneohe Bay)*
- MCB Camp Pendleton*
- MCAS Miramar*
- MCAF Quantico
- MCAS New River*
- MCAS Yuma
- MCMAGTFTC 29 Palms
- NAF El Centro
- NAF Key West
- NAF Washington
- NAS Atlanta
- NAS Brunswick
- NAS Corpus Christi
- NAS Fallon
- NAS Jacksonville*
- NAS JRB Ft Worth
- NAS JRB New Orleans
- NAS JRB Willow Grove
- NAS Lemore*
- NAS Oceana*
- NAS Whidbey Island*
- NAS Corpus Christi
- NAS Kingsville
- NAS Meridian
- NAS Pensacola
- NAS Whiting Field
- Naval Base Coronado (North Island)*
- Naval Station Mayport*
- Naval Station Norfolk*
- Naval Base Ventura County (Pt Mugu) *
- NAWC (AD) Patuxent River
- NAWC (WD) China Lake

* Denotes FRS located at field



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Selection Criteria Weights

Historical Data

Weights used for Surface/Subsurface and Ground Functions

- **Readiness (R): 50**
- **Facilities (F): 20**
- **Surge Capability (S): 15**
- **Cost and Manpower (C): 15**



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Aviation Operations

Attributes

- **Operational Infrastructure**
- **Operational Training**
- **Airfield Characteristics**
- **Environment and Encroachment**
- **Personnel Support (QOL)**



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Aviation Operations **Components**

- **Operational Infrastructure**
 - Runways / Arresting Gear
 - Hangars / Ramps
 - Navaids / Lighting
 - Munitions Storage
 - Intermediate Maintenance
 - Unique or Specialized Capabilities / Missions

DRAFT PROPOSED



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Aviation Operations Components

- **Operational Training**
 - Outlying and Auxiliary Fields (OLFAs)
 - Special Use Airspace
 - Ranges
 - MTRs
 - Aircrew Training Facilities
 - Simulator Facilities

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Aviation Operations

Components

- **Airfield Characteristics**
 - Operational Location
 - Airfield Restrictions
 - Weather
 - AT / FP
 - Locality

PROPOSED



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Aviation Operations

Components

- **Environment and Encroachment**
 - Encroachment
 - Air Quality
 - ACP I, II, Clear Zones
 - Noise
 - Zoning
 - Waste Disposal
 - Potable Water

PROPOSED



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Aviation Operations

Components

- Personnel Support (QOLSS) **PROPOSED**
 - Medical
 - Housing
 - Education
 - Employment
 - Fleet and Family Services
 - MVR
- Follow-on Tour Opportunities
- Metropolitan Area Characteristics



Department of the Navy
Infrastructure Analysis Team

Questions by Component

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11
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TAB 6

Aviation Military Value Evaluation Questions

Attribute: Operational Infrastructure

Component: *Runways and Arresting Gear*

Air 1. Length of longest runway greater than 150 feet wide.

Air 1. What is the length of your longest runway at least 150 feet wide?

Source: Capacity Data Call question DoD 9, CDC 1.6.2.a

The minimum length of runway considered adequate for Navy operations is 3,000 feet for helicopters; for fixed wing aircraft, the standard is 8000 feet. Scoring will be 1 point for 8000 or greater, then a linear scale to 0 points at 3,000.

Air 2. Crosswind Runway.

Air 2. Do you have a crosswind runway?

Source: Capacity Data Call question DoD 9, CDC 1.6.2.a

Binary response. 1 point for yes, 0 for no.

Air 3. Number of runways with arresting gear.

Air 3. How many runways have arresting gear?

Source: Capacity Data Call question DoD 9, CDC 1.6.2.a

Two runways with arresting gear earn 1 point. One runway earns .5 point.

Component: Hangars/Ramps

Air 4. Relative square feet of hangar space classified “adequate?”

Air 4. How many square feet of hangar space is classified as “adequate?”

Source: Capacity Data Call question DoD 19; CDC 1.6.5.b.

Based upon responses from activities, the most adequate hangar space gets 1 point, linear scaled to the least amount of adequate hangar space and 0.

Air 5. Number of hot refueling hydrants.

Air 5. How many hot refueling hydrants are at your airfield?

Source: Capacity Data Call question DoD 558; CDC 1.6.1.a.

Eight hydrants and above receive 1 point, linear scaled to 0.

Air 6. Relative surface area of useable ramp space.

Air 6. What is the total surface area of ramp space rated adequate or substandard?

Source: Capacity Data Call question DoD 8; CDC 1.6.3.a.

Based upon largest Adequate and Substandard (with .5 factor) square yards value received from field, scalable functions will be applied from 0 to 1 for minimum and maximum values.

Component: Nav aids/Lighting

Air 7. Number of runways serviced by Optical Landing System (OLS).

Air 7. How many runways are serviced by the OLS/fresnel lense system?

Source: Military Value Data Call

Two or more receives 1 point. 1 receives .5 point.

Air 8. Number of runways serviced by Automatic Carrier Landing System (ALCS).

Air 8. How many runways are serviced by the Automatic Carrier Landing System?

Source: Military Value Data Call

Two or more receives 1 point. 1 receives .5 point.

Air 9. Number of runways serviced by Precision Approach Radar (PAR).

Air 9. How many runways are serviced by PAR?

Source: Military Value Data Call

Two or more receives 1 point. 1 receives .5 point.

Component: Munitions Storage

Air 10: Relative surface area of available munitions storage facilities.

Air 10. What are the total square feet of available munitions storage facilities?

Source: Capacity Data Call question DoD 20; CDC 1.2.4.1.e

Based upon responses, 1 point will be given to the largest value, then linear scaled to the minimum value.

Component: Intermediate Maintenance

Air 11. Relative Aviation Intermediate Maintenance.

Air 11. What are the total square feet of Aviation Intermediate Level Maintenance facilities on your installation?

Source: Capacity Data Call question DoD 483-485, 488-490 ; CDC 5.1.1.a, b, c, f, g, h

Answer will be summed by six Industrial JCSG questions asking for square feet of AIMD spaces, which were broken down by component/system. We are interested only in the total square feet. Linear scale scoring from max, 1 min, 0.

Component: *Unique or Specialized Capabilities / Missions*

SEA-14. Relative value of unique capabilities or missions.

SEA-14. List and describe any unique capabilities or missions performed at your installation. Unique is defined as a capability or mission performed at no other location.

Capability/Mission	Description

Source: Military Value Data Call

Based upon responses received, IEG will evaluate and assign credit.

SEA-15. Relative value of specialized capabilities or missions.

SEA-15. List and describe any specialized (not unique) capabilities or missions performed at your installation. Examples of specialized capabilities or missions include but are not limited to: Homeland Defense, Strategic Deterrence Missions, Special Warfare, Mine Warfare, Landing Craft Capability, etc.

Capability/Mission	Description

Source: Military Value Data Call

Based upon responses received, IEG will evaluate and assign credit.

**NAVAL AVIATION MILITARY VALUE
MATRIX QUESTIONS**

MV Matrix # Question(s) ATTRIBUTE - Attribute Weight Component	IAT Band	Matrix Scoring Statements	IEG Score
OPERATIONAL INFRASTRUCTURE			
Runways and Arresting Gear			
1 AIR-1	1	Length of longest runway greater than 150 feet wide	10
2 AIR-2	2	Crosswind Runway	7
3 AIR-3	3	Number of runways with arresting gear	2
Hangars/Ramps			
4 AIR-4	1	Relative square feet of hangar space classified "adequate"	8
5 AIR-5	2	Number of hot refueling hydrants	7
6 AIR-6	1	Relative surface area of useable ramp space	10
Nav aids/Lighting			
7 AIR-7	2	Number of runways serviced by Optical Landing System (OLS)	5
8 AIR-8	3	Number of runways serviced by Automatic Carrier Landing System (ACLS)	4
9 AIR-9	2	Number of runways serviced by Precision Approach Radar (PAR)	7
Munitions Storage			
10 AIR-10	3	Relative surface area of available munitions storage facilities	4
Intermediate Maintenance			
11 AIR-11	2	Relative Aviation Intermediate Maintenance	6
Unique or Specialized Capabilities/Missions			
12 SEA-14	1	Relative value of unique capabilities or missions	6
13 SEA-15	2	Relative value of specialized capabilities or missions	4